ELSEVIER

Coordination Chemistry Reviews
178–180 (1998) 1835–1846

COORDINATION CHEMISTRY REVIEWS

# COORDINATION CHEMISTRY REVIEWS, VOL. 178–180 (1998)

## AUTHOR INDEX

Afanasiev, P., 1725
Agbossou, F., 1615
Amatore, C., 511
Arzoumanian, H., 191

Barrau, J., 593
Basset, J.-M., 1703
Bauer, J., 723
Belin, C., 529
Bellocq, N., 1085
Bénard, M., 1019
Berthet, J.C., 83
Blaudeau, J.-P., 1019
Boitrel, B., 1407
Braunstein, P., 903
Bredeau, S., 145
Brémard, C., 1647
Brunel, D., 1085
Brunel, J.M., 665
Brunet, J.-J., 331
Buzin, F.-X., 755

Caminade, A.-M., 793
Capron, L., 269
Carpentier, J.-F., 1615
Cauvel, A., 1085
Cerveau, G., 1051
Chambron, J.-C., 1299
Chaudret, B., 381, 793
Chauvin, R., 331
Chermette, H., 699
Choplin, A., 1679
Collin, J., 117
Collin, J.-P., 1299
Coq, B., 1753
Corriu, R.J.P., 1051
Couret, C., 565

Dahaoui-Gindrey, V., 1313
Dalbavie, J.-O., 1299
Dartiguenave, M., 623
Dartiguenave, Y., 623
des Abbayes, H., 353
Deydier, E., 623
Diallo, O., 331
Dietrich-Buchecker, C.O., 1299
Di Renzo, F., 1085
Dixneuf, P.H., 409
Doppelt, P., 1785
Drillon, M., 1533
Duboc-Toia, C., 1555

El-ghayoury, A., 1251
Ephritikhine, M., 83
Escudié, J., 565

Fabre, B., 1211
Fajula, F., 1085
Faure, B., 665
Favier, F., 865
Feurer, R., 1811
Figueras, F., 1753
Fontecave, M., 1555
Fourmigué, M., 823

Gagliardini, V., 249
Galarneau, A., 1085
Geantet, C., 1725
Germain, J.P., 1433
Giroud-Godquin, A.M., 1485
Giuseppone, N., 117
Graf, E., 1193
Guilard, R., 1313
Guillaud, G., 1433

Halet, J.-F., 723
Hapiot, F., 1615
Harriman, A., 1251
Heitz, V., 1299
Henry, M., 1109
Hierso, J.-C., 1811
Hissler, M., 1251
Hornick, C., 1533
Hosseini, M.W., 1193
Hubert-Pfalzgraf, L.G., 967

Igau, A., 145

Jutand, A., 511

Kalck, P., 1811
Kindela, F., 331
Knorr, M., 903
Kossanyi, A., 1407
Kruger, V., 755

Laget, V., 1533
Lamotte, B., 1573
Lapinte, C., 431
Laspéras, M., 1085
Laurent, P., 353
Laurent, R., 793
Lecas, A., 1407
Lecomte, C., 1313
Lefebvre, F., 1703
Le Floch, P., 771
Leglaye, P., 331
Livage, J., 999

Maestre, J.-M., 1019
Maffei, M., 665
Majoral, J.-P., 145
Majoral, J.P., 793
Man, M.W.C., 1073
Marinetti, A., 755
Mathey, F., 771
Ménage, S., 1555
Menu, M.J., 623
Mestdagh, H., 269
Meunier, P., 145
Meyer, M., 1313

Moreau, J.J.E., 1073
Moreau, P., 1085
Mortreux, A., 1615
Mouesca, J.-M., 1573

Muir, K.W., 203
Neibecker, D., 331
Nief, F., 13

Odobel, F., 1299
Ouahab, L., 1501

Pascal, J.-L., 865
Paul, F., 431
Pétillon, F.Y., 203
Pierre, J.-L., 1183
Pirio, N., 145
Poblet, J.-M., 1019
Poli, R., 169

Quelquejeu, M., 1407
Quignard, F., 1679

Rabu, P., 1533
Ranaivonjatovo, H., 565
Renard, C., 249
Rima, G., 593
Rohmer, M.-M., 1019
Rolando, C., 269
Rose-Munch, F., 249
Rose, E., 249, 1407

Sabo-Etienne, S., 381
Saillard, J.-Y., 723
Salaün, J.-Y., 353
Santini, C., 1703
Sauvage, J.-P., 1299
Schollhammer, P., 203
Siebald, H., 623
Simonet, J., 1211
Simon, J., 1433
Skowronska, A., 145
Solladié, N., 1299

Stern, C., 903
Suisse, I., 1615
Sutra, P., 1085

Talarmin, J., 203
Tanielian, C., 1165
Tillard-Charbonnel, M., 529
Touchard, D., 409

Van de Weghe, P., 117

Wang, L.-S., 169

Zablocka, M., 145
Ziessel, R., 1251, 1533

## SUBJECT INDEX

Ab initio
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019

Actinide
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13

Acylcarbonylferrates
Coordination chemistry of mononuclear iron carbonyl complexes 331

Acylphosphine complexes
Coordination chemistry of mononuclear iron carbonyl complexes 331

Alkaline metals
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193

Alkoxides
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967

Alkoxysilanes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903

Allyl ligands
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169

Amide
New advances in the chemistry of uranium amide compounds 83

Aminoalkoxides
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967

Aminophosphine-phosphinites
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615

Aminosilanes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903

Anchored catalysts
From supported homogeneous catalysts to heterogeneous molecular catalysts 1679

Anionic frameworks
Aspects of anionic framework formation. Clustering of p-blick elements 529
Arene
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Arene complexes
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Aromatic substitution
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Asymmetric C–C formation
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Asymmetric catalysis
Synthetic approaches to chiral phosphetanes 755
Asymmetric catalysis
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Asymmetric hydroformylation
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Asymmetric hydrogenation
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Asymmetric hydrosilylation
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Asymmetric inorganic synthesis
Enantioselective creation of helical chirality in octahedral (OC-6) complexes. Recent advances 1183
Asymmetric oxidation
Synthesis of biomimetic heme precursors 1407

Benzenetricarbonylchromium
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Benzenetricarbonylmanganese
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Benzynezirconocene
Zirconocene [$Cp_2Zr$] synthon and benzynezirconocene complexes as tools in main group element chemistry 145
Bonding mode
Crystal and molecular structures of transition metal complexes with N- and C-bonded diazoalkane ligands 623
Borane
Phosphane–boranes: synthesis, characterization and synthetic applications 665
borocarbide
Rare earth metal borocarbides. Examples of coordination compounds in solid-state chemistry 723
Borocryptand
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193
Boron compounds
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193
Butadiene dimerization
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169
Butadiene polymerization
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR'](CO)_4$ ($x+y=0$, 1, 2, 3, 4). Thermolysis and carbon–carbon coupling: a personal survey 353

Carbon–carbon coupling
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR'](CO)_4$ ($x+y=0$, 1, 2, 3, 4). Thermolysis and carbon–carbon coupling: a personal survey 353
Carbonyl metals
Organometallic chemistry of group VI metals in the void space of zeolites 1647
Catalysis
Lanthanide iodides, a new family of efficient Lewis acid catalysts 117
Catalysis
Synthesis of solid materials in molten nitrates 1725
Catalytic dehydrogenative coupling of stannanes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903

Cation
New advances in the chemistry of uranium amide compounds 83
Chain–ring isomerization
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR']$ $(CO)_4$ $(x+y=0, 1, 2, 3, 4)$. Thermolysis and carbon–carbon coupling: a personal survey 353
charge separation
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Chemical vapor deposition
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Chiral diphosphines
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Chirality
Lanthanide iodides, a new family of efficient Lewis acid catalysts 117
Chirality
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193
Chiral ligands
Enantioselective creation of helical chirality in octahedral (OC-6) complexes. Recent advances 1183
Chiral phosphinite–ammonium ligands
Coordination chemistry of mononuclear iron carbonyl complexes 331
Chlorine trioxide
Inorganic perchlorato complexes 865
Clusters
Aspects of anionic framework formation. Clustering of p-blick elements 529
CO-olefin stepwise insertion
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Cobalt
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Complexation
Phosphine-terminated dendrimers. Synthesis and complexation properties 793
Coordination chemistry
Density functional theory. A powerful tool for theoretical studies in coordination chemistry 699
Rare earth metal borocarbides. Examples of coordination compounds in solid-state chemistry 723
Coordination modes
Mixed cyclopentadienyl/dithiolene complexes 823
Coordination scheme
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
Copper CVD
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785
Copper films
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785
Crown ether
Electroactive polymers containing crown ether or polyether ligands as cation-responsive materials 1211
Cryptand
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193
Crystal Structures
Crystal and molecular structures of transition metal complexes with N- and C-bonded diazoalkane ligands 623
Cyclam
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
Cyclen
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
Cyclopentadienes
Mixed cyclopentadienyl/dithiolene complexes 823
Cyclopentadienyl
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203
Cyclopentadienyl complexes
Lanthanide iodides, a new family of efficient Lewis acid catalysts 117

Dehydroxylated silica
Surface organometallic chemistry: some fundamental features including the coordination effects of the support 1703

Dendrimer
Phosphine-terminated dendrimers. Synthesis and complexation properties 793
Density functional theory
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Density functional theory (DFT)
Density functional theory. A powerful tool for theoretical studies in coordination chemistry 699
Diazoalkanes N-Coordinated
Crystal and molecular structures of transition metal complexes with N- and C-bonded diazoalkane ligands 623
Dicarbonylation
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR'](CO)_4$ $(x+y=0, 1, 2, 3, 4)$. Thermolysis and carbon–carbon coupling: a personal survey 353
Diffraction
Inorganic perchlorato complexes 865
Diffuse reflectance
Organometallic chemistry of group VI metals in the void space of zeolites 1647
Dihydrogen compounds
Chemistry of bis(dihydrogen) ruthenium complexes and of their derivatives 381
Dimetallic catalysts
Structure–activity relationships in catalysis by metals: some aspects of particle size, bimetallic and supports effects 1753
Dimolybdenum
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203
Diolates
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
Dioxygen activation
Functional models of non-heme diiron enzymes 1555
Dipolar interactions
Molecular magnets. Hybrid organic–inorganic layered compounds with very long-range ferromagnetism 1533
Dithiolenes
Mixed cyclopentadienyl/dithiolene complexes 823
Electrical conductivity
Coordination complexes in conducting and magnetic molecular materials 1501
Electroactive polymers
Electroactive polymers containing crown ether or polyether ligands as cation-responsive materials 1211
Electrochemistry
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203
Electron-transfer
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Electronic structure
Rare earth metal borocarbides. Examples of coordination compounds in solid-state chemistry 723
Electronic structures
Aspects of anionic framework formation. Clustering of p-blick elements 529
Electron transfer
Organometallic molecular wires and other nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431
Electron transfer
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Electrostatic potential
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
Electrostatic potentials
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Enantioselective alkylation
Transition-metal ligands bound onto the micelle-templated silica surface 1085
Enantioselective catalysts
The design of selective catalysts from hybrid silica-based materials 1073
Encapsulation complexes
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Energy-transfer
Multifunctional transition metal complexes. Information transfer at the molecular level 1251

Ephedrine
Transition-metal ligands bound onto the micelle-templated silica surface 1085

Ferrocenium
Coordination complexes in conducting and magnetic molecular materials 1501
Ferromagnetic interactions
Coordination complexes in conducting and magnetic molecular materials 1501
Field effect transistor
Metallophthalocyanines. Gas sensors, resistors and field effect transistors 1433
Functionalization
Transition-metal ligands bound onto the micelle-templated silica surface 1085

Gas sensors
Metallophthalocyanines. Gas sensors, resistors and field effect transistors 1433
Germanium compounds
Stable germanium analogs of carbenes, imines, ketones, thiones, selones and tellones 593
Germaphosphaallenes
Silenes >Si=C<, germenes >Ge=C< and stannenes >Sn=C<. The French contribution 565
Germenes
Silenes >Si=C<, germenes >Ge=C< and stannenes >Sn=C<. The French contribution 565
Group 14
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13
Group 15
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13
Group 16
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13
Group 3
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13

Hafnium
New advances in the chemistry of uranium amide compounds 83
Helical chirality
Enantioselective creation of helical chirality in octahedral (OC-6) complexes. Recent advances 1183
Hemilabile behaviour
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Hemoprotein model
Synthesis of biomimetic heme precursors 1407
Heterobimetallic
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Heterocycles
Zirconocene [$Cp_2Zr$] synthon and benzynezirconocene complexes as tools in main group element chemistry 145
Heteroelement
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13
Heterogeneous catalysis
Surface organometallic chemistry: some fundamental features including the coordination effects of the support 1703
Heterogeneous catalysis
Structure–activity relationships in catalysis by metals: some aspects of particle size, bimetallic and supports effects 1753
Heterogeneous molecular catalysts
From supported homogeneous catalysts to heterogeneous molecular catalysts 1679
Heterogeneous molecularly dispersed catalysts
From supported homogeneous catalysts to heterogeneous molecular catalysts 1679
Hexacyanometallates
Coordination complexes in conducting and magnetic molecular materials 1501
Host–guest complexes
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Hybrid magnets
Molecular magnets. Hybrid organic–inorganic layered compounds with very long-range ferromagnetism 1533
Hybrid silicas
The design of selective catalysts from hybrid silica-based materials 1073
Hydridocarbonylferrates
Coordination chemistry of mononuclear iron carbonyl complexes 331

Hydrogen peroxide
Functional models of non-heme diiron enzymes 1555
Hydrolysis of phosphodiesters
Functional models of non-heme diiron enzymes 1555
Hydrothermal syntheses
Synthesis of polyoxovanadates via "chimie douce" 999
Hydrotreatment
Synthesis of solid materials in molten nitrates 1725

Immobilized catalysts
From supported homogeneous catalysts to heterogeneous molecular catalysts 1679
Inorganic acceptors
Coordination complexes in conducting and magnetic molecular materials 1501
Inosilicate networks
Retrosynthesis in inorganic crystal structures: application to nesosilicate and inosilicate networks 1109
Intermetallic compounds
Aspects of anionic framework formation. Clustering of p-blick elements 529
Ion–molecule reactions
Gas-phase reactivity of ionic iron complexes: comparison with solution chemistry 269
Iron
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR']$ $(CO)_4$ $(x+y=0, 1, 2, 3, 4)$. Thermolysis and carbon–carbon coupling: a personal survey 353
Iron complexes
Gas-phase reactivity of ionic iron complexes: comparison with solution chemistry 269
Iron pentacarbonyl
Coordination chemistry of mononuclear iron carbonyl complexes 331
IR spectroscopy
Organometallic chemistry of group VI metals in the void space of zeolites 1647
Isonitrile insertion reactions
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903

Kinetic control of solids
Some recent developments of polysilsesquioxanes chemistry for material science 1051

Lanthanide
Complexes containing bonds between group 3, lanthanide or actinide metals and non-first-row main group elements (excluding halogens) 13
Lanthanide iodides
Lanthanide iodides, a new family of efficient Lewis acid catalysts 117
Lattice potential
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Ligand substitution processes
Coordination chemistry of mononuclear iron carbonyl complexes 331
Liquid crystal
My 20 years of research in the chemistry of metal containing liquid crystals 1485

Main group element
Zirconocene $[Cp_2Zr]$ synthon and benzynezirconocene complexes as tools in main group element chemistry 145
MCM-41 materials
Transition-metal ligands bound onto the micelle-templated silica surface 1085
Mesomorphic properties
My 20 years of research in the chemistry of metal containing liquid crystals 1485
Mesophases
Synthesis of polyoxovanadates via "chimie douce" 999
Metal–oligopyridine complexes
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Metal-oxo
Molybdenum-oxo chemistry in various aspects of oxygen atom transfer processes 191
Metal-support interaction
Structure–activity relationships in catalysis by metals: some aspects of particle size, bimetallic and supports effects 1753
Metal-transition complexes
Transition-metal ligands bound onto the micelle-templated silica surface 1085
Metallaalkenes
Silenes $>Si=C<$, germenes $>Ge=C<$ and stannenes $>Sn=C<$. The French contribution 565
Metallacycles
Mixed cyclopentadienyl/dithiolene complexes 823
Metallization
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785

Metallomesogen
My 20 years of research in the chemistry of metal containing liquid crystals 1485
Metalloporphyrin
Synthesis of biomimetic heme precursors 1407
Methane monooxygenase
Functional models of non-heme diiron enzymes 1555
Mixed-metal alkoxides
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
Mixed valence
Organometallic molecular wires and other nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431
MOCVD
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
MOCVD
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Molecular-scale electronics
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Molecular magnetism
Molecular magnets. Hybrid organic–inorganic layered compounds with very long-range ferromagnetism 1533
Molecular wires
Organometallic molecular wires and other nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431
Molten salts
Synthesis of solid materials in molten nitrates 1725
Molybdenum
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169
Monocarbonylation
*Cis* octahedral iron complexes $Fe[(CO)_xR][(CO)_yR']$ $(CO)_4$ $(x+y=0, 1, 2, 3, 4)$. Thermolysis and carbon–carbon coupling: a personal survey 353
Monocyclooctatetraene
New advances in the chemistry of uranium amide compounds 83
Monophasic Organic Inorganic Hybrid Materials
Some recent developments of polysilsesquioxanes chemistry for material science 1051
Myoglobin
Synthesis of biomimetic heme precursors 1407
Nanoscopic devices
Organometallic molecular wires and other nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431
Nesosilicate networks
Retrosynthesis in inorganic crystal structures: application to nesosilicate and inosilicate networks 1109
Nickel
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Nitrates
Synthesis of solid materials in molten nitrates 1725
Nitrogen
Zirconocene $[Cp_2Zr]$ synthon and benzynezirconocene complexes as tools in main group element chemistry 145
Nitronyl nitroxide radicals
Coordination complexes in conducting and magnetic molecular materials 1501
Non-heme diiron complexes
Functional models of non-heme diiron enzymes 1555
Non-solvated
Inorganic perchlorato complexes 865
Non covalent assemblies
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Nucleophilic substitution
($\eta^6$-Arene)tricarbonylchromium and ($\eta^5$-cyclohexadienyl) tricarbonylmanganese complexes: indirect nucleophilic substitutions 249
Olefin epoxidation
Transition-metal ligands bound onto the micelle-templated silica surface 1085
Organic donors
Coordination complexes in conducting and magnetic molecular materials 1501
Organic spacers
Molecular magnets. Hybrid organic–inorganic layered compounds with very long-range ferromagnetism 1533
Organic synthesis
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
Organoiron
Organometallic molecular wires and other

nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431
Organometallic complexes
Surface organometallic chemistry: some fundamental features including the coordination effects of the support 1703
Organophosphorus compounds
Phosphane–boranes: synthesis, characterization and synthetic applications 665
Oxidation
Molybdenum-oxo chemistry in various aspects of oxygen atom transfer processes 191
Oxidative addition
Role of dba in the reactivity of palladium(0) complexes generated in situ from mixtures of $Pd(dba)_2$ and phosphines 511
Oxygen atom transfer
Molybdenum-oxo chemistry in various aspects of oxygen atom transfer processes 191
Palladium
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Palladium
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Palladium(0)
Role of dba in the reactivity of palladium(0) complexes generated in situ from mixtures of $Pd(dba)_2$ and phosphines 511
Paramagnetic organometallics
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169
Pentamethylcyclopentadienyl
New advances in the chemistry of uranium amide compounds 83
Perchlorato
Inorganic perchlorato complexes 865
Peroxides
Decatungstate photocatalysis 1165
Phosphane–borane complexes
Phosphane–boranes: synthesis, characterization and synthetic applications 665
Phosphanes
Coordination chemistry of mononuclear iron carbonyl complexes 331
Phosphetanes
Synthetic approaches to chiral phosphetanes 755
Phosphine
Phosphine-terminated dendrimers. Synthesis and complexation properties 793
Phosphinines
Transition metals in phosphinine chemistry 771
Phosphorus
Zirconocene [$Cp_2Zr$] synthon and benzynezirconocene complexes as tools in main group element chemistry 145
Phosphorus
Transition metals in phosphinine chemistry 771
Photocatalysis
Decatungstate photocatalysis 1165
Photochemistry
Decatungstate photocatalysis 1165
Photochemistry
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Photochemistry
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Photooxygenation
Decatungstate photocatalysis 1165
Phthalocyanines
Metallophthalocyanines. Gas sensors, resistors and field effect transistors 1433
Platinum
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Platinum
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Platinum complexes
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Polyacetylides
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Polyether
Electroactive polymers containing crown ether or polyether ligands as cation-responsive materials 1211
Polynuclear complexes
Organometallic molecular wires and other nanoscale-sized devices. An approach using the organoiron (dppe)CpFe building block 431

Polyoxometalates
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019
Polyoxometalates
Coordination complexes in conducting and magnetic molecular materials 1501
Polyoxotungstates
Decatungstate photocatalysis 1165
Porous materials catalysis
The design of selective catalysts from hybrid silica-based materials 1073
Porphryins
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Porphyrins
Multifunctional transition metal complexes. Information transfer at the molecular level 1251
Porphyrins
Synthesis of biomimetic heme precursors 1407
Protonation
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313

Quantum chemistry
From Lindqvist and Keggin ions to electronically inverse hosts: Ab initio modelling of the structure and reactivity of polyoxometalates 1019

Radical-based magnets
Molecular magnets. Hybrid organic–inorganic layered compounds with very long-range ferromagnetism 1533
Radicals
Decatungstate photocatalysis 1165
Rare earth metal
Rare earth metal borocarbides. Examples of coordination compounds in solid-state chemistry 723
Rare earth oxides
Synthesis of solid materials in molten nitrates 1725
Reactivity of coordinated ligands
Comparative chemistry of 18-electron Mo(II) and 17-electron Mo(III) compounds containing only carbon-based ligands 169
Receptor
Cryptands revisited. Design, synthesis, complexation behaviour and structural analysis of borocryptands 1193
Redistribution reactions
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Redox chemistry
Mixed cyclopentadienyl/dithiolene complexes 823
Resistors
Metallophthalocyanines. Gas sensors, resistors and field effect transistors 1433
Retrosynthesis
Retrosynthesis in inorganic crystal structures: application to nesosilicate and inosilicate networks 1109
Rhodium
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615
Rhodium
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Ribonucleotide raductose
Functional models of non-heme diiron enzymes 1555
Rotaxanes
Rotaxanes and other transition metal-assembled porphyrin arrays for long-range photoinduced charge separation 1299
Ruthenium
Chemistry of bis(dihydrogen) ruthenium complexes and of their derivatives 381
Ruthenium
The aminophosphine-phosphinites and related ligands: synthesis, coordination chemistry and enantioselective catalysis 1615

SAMs
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785
Selective copper deposition
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785
Short range organisation of organic units
Some recent developments of polysilsesquioxanes chemistry for material science 1051
Silenes
Silenes >Si=C<, germenes >Ge=C< and stannenes >Sn=C<. The French contribution 565
Silicon migration reactions
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903

Siloxanes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
μ-Siloxycarbene complexes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Silylene
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Sol–gel
Synthesis of polyoxovanadates via "chimie douce" 999
Sol-gel
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
Solid-state structure
Rare earth metal borocarbides. Examples of coordination compounds in solid-state chemistry 723
Spin crossover
Coordination complexes in conducting and magnetic molecular materials 1501
Stable germylenes
Stable germanium analogs of carbenes, imines, ketones, thiones, selones and tellones 593
Stannenes
Silenes >Si=C<, germenes >Ge=C< and stannenes >Sn=C<. The French contribution 565
Stannylene complexes
Bimetallic silicon chemistry. New opportunities in coordination and organometallic chemistry 903
Supported homogeneous catalysts
From supported homogeneous catalysts to heterogeneous molecular catalysts 1679
Supported metals
Structure–activity relationships in catalysis by metals: some aspects of particle size, bimetallic and supports effects 1753
Supports
Synthesis of solid materials in molten nitrates 1725
Surface derivatization
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785
Synthesis
Inorganic perchlorato complexes 865
Synthesis
Synthesis of solid materials in molten nitrates 1725
Templates
Synthesis of polyoxovanadates via "chimie douce" 999
Tetraazamacrocycles
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
Theoretical chemistry
Density functional theory. A powerful tool for theoretical studies in coordination chemistry 699
Thiolate
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203
Titanium
New advances in the chemistry of uranium amide compounds 83
Transition-metal complexes
My 20 years of research in the chemistry of metal containing liquid crystals 1485
Transition metal complexes
Transition metals in phosphinine chemistry 771
Transition metal oxides
Synthesis of solid materials in molten nitrates 1725
Transition metals
Crystal and molecular structures of transition metal complexes with N- and C-bonded diazoalkane ligands 623
Transition metals
Synthetic approaches to chiral phosphetanes 755
Transition metal site
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203
*trans,trans*-dibenzylideneacetone
Role of dba in the reactivity of palladium(0) complexes generated in situ from mixtures of $Pd(dba)_2$ and phosphines 511
Unsaturated alkoxides
Some aspects of homo and heterometallic alkoxides based on functional alcohols 967
Uranium
New advances in the chemistry of uranium amide compounds 83
Uranium(V)
New advances in the chemistry of uranium amide compounds 83

Vanadates
Synthesis of polyoxovanadates via "chimie douce" 999
Vibrational spectroscopy
Inorganic perchlorato complexes 865
Volatile complexes
Platinum, palladium and rhodium complexes as volatile precursors for depositing materials 1811
Volatile copper complexes
Why is coordination chemistry stretching the limits of micro-electronics technology? 1785

Weak interactions
Some recent developments of polysilsesquioxanes chemistry for material science 1051

X-ray crystal structures
Conformations and coordination schemes of carboxylate and carbamoyl derivatives of the tetraazamacrocycles cyclen and cyclam, and the relation to their protonation states 1313
X-ray structure
Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of site–substrate interactions 203

Zeolites
Organometallic chemistry of group VI metals in the void space of zeolites 1647
Zintl anions
Aspects of anionic framework formation. Clustering of p-blick elements 529
Zintl phases
Aspects of anionic framework formation. Clustering of p-blick elements 529
Zirconium
New advances in the chemistry of uranium amide compounds 83
Zirconium alkyls
Surface organometallic chemistry: some fundamental features including the coordination effects of the support 1703
Zirconocene
Zirconocene [$Cp_2Zr$] synthon and benzynezirconocene complexes as tools in main group element chemistry 145
Zwitterionic chiral hydridocarbonylferrates
Coordination chemistry of mononuclear iron carbonyl complexes 331